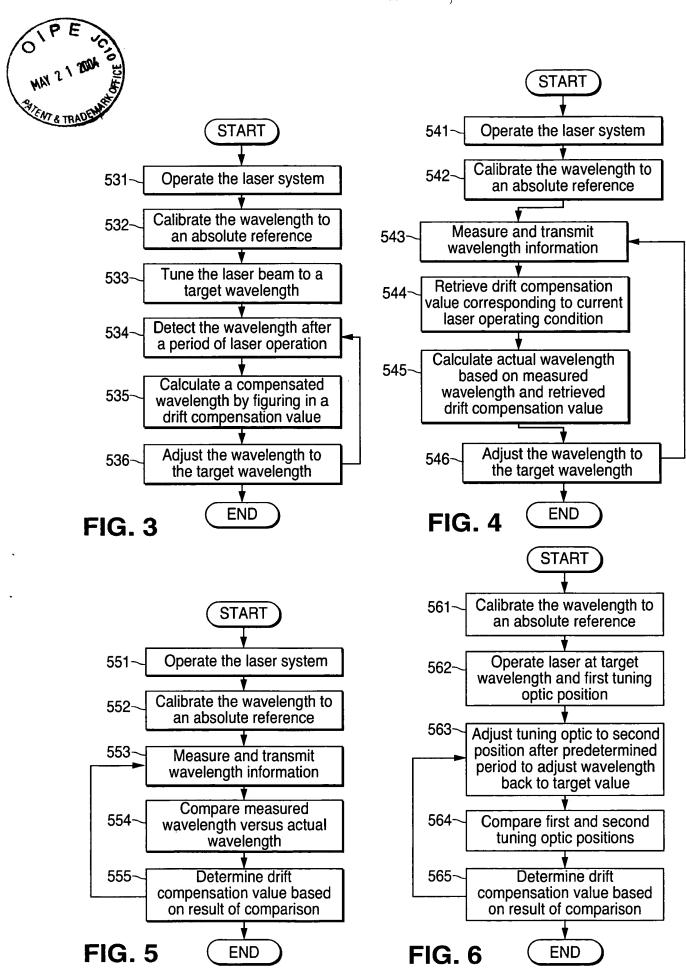


Scheme of the laser system including the apparatus and processing for absolute wavelength calibration

20 narrow-band output beam	30 polarizer	36 gaseous element		
14b motor drive for wavelength shift	40 wavelength monitoring	42 display for wavelength	22b,22c beam splitters	32 resonator mirror
3,4,6,8 laser chamber, pulser, gas handling, power supply	34 wavelength calibration tool containing absorbing element	38 signal processing and driving source for 2 gas cell	16 main processing and data recording	106 line narrowing and tuning block

<u>G</u>.2



as it is	OIP	E 2 7 W	(C) (S) (B) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B					App	olace oln. I	No. (	9/90	3,42	25								
	CATEN	// & TRA	DENT				<b>~</b> 	<b>x</b>			_	١			ن حــ	)		`			
			6104	0.01	0	-0.9	-0.1	-0.16	-0.17	-0.23	-0.23		-0.09	-0.01	-0.08	-0.01	-0.06		-0.23		×
			6105	-0.01	0.03	-0.06	-0.01	0	0	-0.07	0.08		-0.09	0.05	0.05	0	-0.07		-0.1	·	
			6102	0.05	0	-0.01	-0.03	-0.05	-0.12	-0.5	-0.19		-0.01	-0.05	-0.05	-0.07	-0.08		-0.2		×
			6094	-0.05	-0.07	-0.13	-0.13	-0.17	-0.13	-0.22	-0.21		90.0-	0	-0.04	-0.04	-0.09		-0.15		×
			6458	-0.03	-0.09	-0.12	-0.14	-0.18	-0.18	-0.17	-0.18		-0.03	-0.02	-0.04	0.1	-0.09		-0.08		
			6457	-0.01	-0.02	-0.03	-0.02	-0.02	0.09	0.08	0.12		-0.01	0.01	0	0.11	-0.01		0.1		
			6461	0	-0.05	-0.1	-0.04	-0.1	-0.16	-0.2	-0.25		-0.05	90.0	-0.06	-0.06	-0.04		-0.15		×
•			6480	0.01	-0.01	-0.04	0	-0.02	-0.07	-0.14	-0.08		-0.83	0.04	-0.05	-0.06	-0.07		-0.13		×
,			6429	-0.01	-0.11	-0.06	0	-0.05	0.03	0.01	0.07		0.03	0.08	-0.05	0.08	-0.02		0.12		
			6462	-0.01	-0.05	-0.07	-0.02	-0.07	-0.06	-0.01	0.05		-0.05	-0.05	-0.05	0.13	-0.07		0.01		
			6464	-0.02	0.03	0	0.01	0	0.01	1.0-	-0.04		-0.03	0.01	-0.01	0.01	-0.11		-0.13		
		Wavelength Drifts	Pre	Start	Full	Full2	Full3	Full4	Final	Post		- Diff:						Diff GLD:			Good tendency
								V V				)							1	י ם	

FIG. 7